

Message Text

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SUBJECT: SPACE AGREEMENT: MICROWAVE OBSERVATION EXPERI-
MENT (04.02.00)

REF: STATE 229902
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FOR SCICOUN

1. PLEASE PASS THE FOLLOWING MESSAGE FROM DAVID S. JOHNSON,
US CO-CHAIRMAN OF SATELLITE METEOROLOGY SECTION OF US/USSR
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WORKING GROUP ON SPACE METEOROLOGY, TO HIS SOVIET COUNTER-
PART, DR. L. A. ALEKSANDROV.

2. MARCH 8, 1978 04.02.00

DR. L. A. ALEKSANDROV
HYDROMETEOROLOGICAL SERVICE OF THE USSR

12, PAVLIK MOROZOV STREET
MOSCOW, D-376, USSR

DEAR DR. ALEKSANDROV:

AFTER A PRELIMINARY EXAMINATION OF THE USSR MICROWAVE DATA,

DR. GLOERSEN INFORMS ME THAT HE NEEDS FURTHER INFORMATION
IN ORDER TO PERFORM THE AGREED EVALUATION. SPECIFICALLY,
WITH REFERENCE TO THE DATA ELEMENTS SECTION IN THE APPEN-
DIX OF THE ENCLOSURE TO MY SEPTEMBER 21, 1977 LETTER, WE
HAVE NOT RECEIVED THE FOLLOWING:

INFORMATION ON PROCESSED DATA POINTS:

5. AIRCRAFT ROLL AND PITCH ANGLES
7. GROUND SPEED OF AIRCRAFT (CAN'T TELL WHETHER FIGURE
GIVEN IS AIR OR GROUND SPEED)
8. WIND SPEED AND DIRECTION
9. OCEAN SURFACE TEMPERATURE (FROM A THERMAL INFRARED
RADIOMETER)

SUPPLEMENTAL INFORMATION ON THE DATA COLLECTION SYSTEM:

1. RECORDING RATE ON THE RAW DATA TAPE (SAMPLES/SECONDS)
 2. TIME CONSTANT, OR AVERAGING TIME, OF INSTRUMENT
(SECONDS)
 4. INSTRUMENT CALIBRATION SCHEME
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5. DEMONSTRATION INSTRUMENT SENSITIVITY, STABILITY AND
ABSOLUTE CALIBRATION
6. INSTRUMENT INTERVAL CALIBRATION REFERENCE TECHNIQUE
8. COMPENSATION SCHEME FOR TEMPERATURE VARIATIONS OF
LOSSY COMPONENTS WITHIN THE INSTRUMENT (INCLUDING RADOMES,
ANTENNAE AND WAVEGUIDES)

IN ADDITION, WE HAVE THE FOLLOWING QUESTIONS ABOUT THE
MICROWAVE DATA WE HAVE RECEIVED FROM THE USSR:

1. WHAT IS THE SIGNIFICANCE OF NEGATIVE NUMBERS IN THE
BRIGHTNESS TEMPERATURE TABLES?
2. WHAT IS THE SIGNIFICANCE OF OCCASIONAL TWO DIGIT
NUMBERS IN THE BRIGHTNESS TEMPERATURE TABLES?
3. WITH REGARD TO THE LAST LINE OF EACH DATA BLOCK,

WHAT DO THE NUMBERS AFTER THE DATE (1-9-76) REPRESENT?

WE LOOK FORWARD TO HEARING FROM YOU ON THESE MATTERS.

SINCERELY,

DAVID S. JOHNSON
DIRECTOR, NATIONAL ENVIRONMENTAL SATELLITE SERVICE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

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